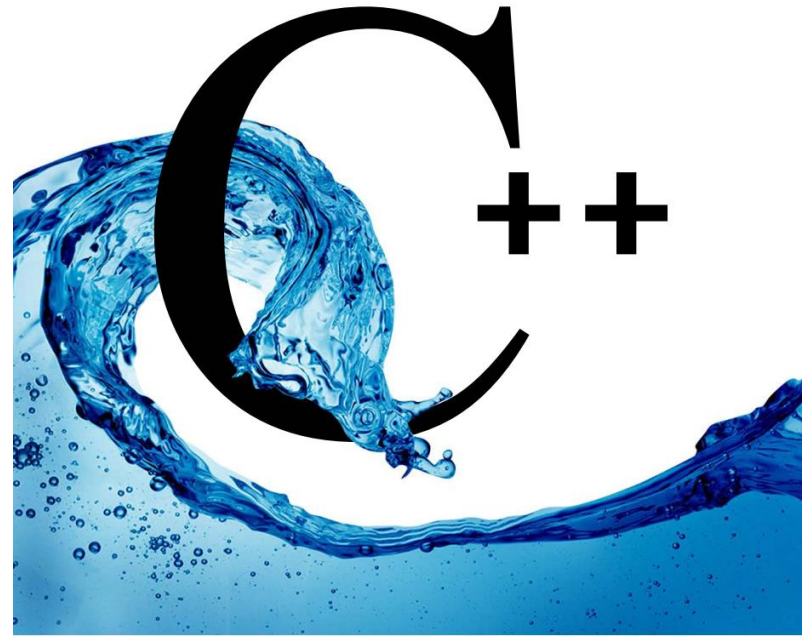




**ME 110**  
**Computation for**  
**Mechanical**  
**Engineering**



# Lecture 1

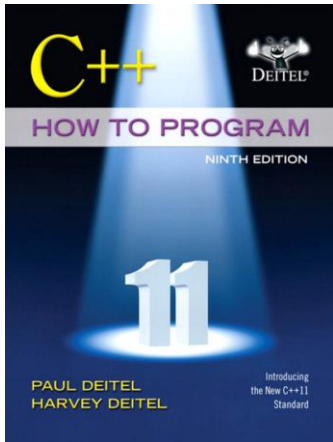
## Introduction to the course

# Web Resources for the Course

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- ▶ **University of Gaziantep C++ resource page**  
[cpp.gantep.edu.tr](http://cpp.gantep.edu.tr)
  - Tutorials, Sample Programs, Howtos
  - We will follow the “*Basic tutorial*” section.
- ▶ **C++ Resources Network:**  
[www.cplusplus.com](http://www.cplusplus.com)
- ▶ **C++ Reference:**  
[www.cppreference.com](http://www.cppreference.com)
- ▶ <http://www.doc.ic.ac.uk/~wjk/C++Intro/>
- ▶ **Also search *Google* and *Wikipedia* for any of the expressions used in this course.**

# Course Books



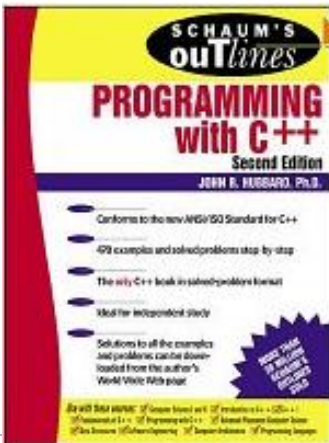
## C++ How to Program

Poul and Harvey Deitel, Pearson Education (2024)

## Jumping into C++,

Alex Allain, [www.cprogramming.com](http://www.cprogramming.com)

ALEX ALLAIN  
CREATOR OF CPROGRAMMING.COM



## Programming with C++,

John R. Hubbard Schaum Outline Series (2000)

# Course Content

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ME 110 COMPUTATION FOR MECHANICAL ENGINEERS COURSE CONTENT		
Title	Date	Class
Introduction to the Course	9.2.2026	MD Amfi
Introduction to the programming, C++ Structure and programming, C++ Data Types	11.2.2026	MD Amfi
Computer Lab-1	16.2.2026	B.i.M
C++ operators, intrinsic functions and strings	18.2.2026	MD Amfi
Computer Lab-2	23.2.2026	B.i.M
Control structures: Selection	25.2.2026	MD Amfi
Computer Lab-3	2.3.2026	B.i.M
Control structures: Repetitive structures	4.3.2026	MD Amfi
Computer Lab-4	9.3.2026	B.i.M
MIDTERM-I	11.3.2026	
Solutions of Midterm I	16.3.2026	B.i.M

Formatted I/O	18.3.2026	MD Amfi
Computer Lab-5	23.3.2026	B.i.M
File processing	25.3.2026	MD Amfi
Computer Lab-6	30.3.2026	B.i.M
Functions I:	1.4.2026	MD Amfi
Introduction and Basics (Part I)		
Computer Lab-7	6.4.2026	B.i.M
Functions II:	8.4.2026	MD Amfi
Introduction and Basics (Part II)		
Computer Lab-8	13.4.2026	B.i.M
Arrays	15.4.2026	MD Amfi
Computer Lab-9	20.4.2026	B.i.M
Multidimensional Arrays	22.4.2026	MD Amfi
Computer Lab-10	27.4.2026	B.i.M
MIDTERM-2	29.4.2026	
Solutions of Midterm II	4.5.2026	B.i.M
Vectors	6.5.2026	MD Amfi
Computer Lab-11	11.5.2026	B.i.M
MS Word, Excel, Powerpoint Basics	13.5.2026	MD Amfi
Computer Lab-12	18.5.2026	B.i.M
TUTORIAL	20.5.2026	MD Amfi

# Lectures, Labs, Attendance, Exams

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- ▶ **NOTE TO THE COURSE CONTENT AND DATES!!**

- ▶ **Lectures**

- ▶ two-hour lecture in **MERKEZI DERSLIK** Amphi

- ▶ **Applications**

- ▶ two-hour programming session in **BIM Lab. 1 and 2**

- ▶ **Attendance**

- ▶ You must attend at least 70% of the course

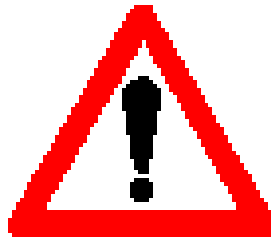
- ▶ **Exams**

*All are written exams*

- |                  |     |
|------------------|-----|
| ▶ First midterm  | 30% |
| ▶ Second midterm | 30% |
| ▶ Final          | 40% |

# Computer Labs

- ▶ **We will learn C++ using the Dev-C++ compiler under Windows**
- ▶ **Every week you should write a few programs yourself in the BIM lab (and more in your free time).**
- ▶ **In the BIM Computer Labs your programs will be deleted when the computer restarted. So you need to save them on a flash drive or on the internet.**



**DO NOT FORGET TO BRING  
YOUR LAPTOP or FLASH DISK WITH YOU**